

10/07/2006 10560556d.trn

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* * * * * Welcome to STN International * * * * *

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NEWS 3 FEB 27 New STN AnaVist pricing effective March 1, 2006
NEWS 4 MAY 10 CA/CAPLUS enhanced with 1900-1906 U.S. patent records
NEWS 5 MAY 11 KOREAPAT updates resume
NEWS 6 MAY 19 Derwent World Patents Index to be reloaded and enhanced
NEWS 7 MAY 30 IPC 8 Rolled-up Core codes added to CA/CAPLUS and
USPATFULL/USPAT2
NEWS 8 MAY 30 The F-Term thesaurus is now available in CA/CAPLUS
NEWS 9 JUN 02 The first reclassification of IPC codes now complete in
INPADOC
NEWS 10 JUN 26 TULSA/TULSA2 reloaded and enhanced with new search and
and display fields
NEWS 11 JUN 28 Price changes in full-text patent databases EPFULL and PCTFULL
NEWS 12 JUL 11 CHEMSAFE reloaded and enhanced
NEWS 13 JUL 14 FSTA enhanced with Japanese patents
NEWS 14 JUL 19 Coverage of Research Disclosure reinstated in DWPI
NEWS 15 AUG 09 INSPEC enhanced with 1898-1968 archive
NEWS 16 AUG 28 ADISCTI Reloaded and Enhanced
NEWS 17 AUG 30 CA(SM)/CAPLUS(SM) Austrian patent law changes
NEWS 18 SEP 11 CA/CAPLUS enhanced with more pre-1907 records
NEWS 19 SEP 21 CA/CAPLUS fields enhanced with simultaneous left and right
truncation
NEWS 20 SEP 25 CA(SM)/CAPLUS(SM) display of CA Lexicon enhanced
NEWS 21 SEP 25 CAS REGISTRY(SM) no longer includes Concord 3D coordinates
NEWS 22 SEP 25 CAS REGISTRY(SM) updated with amino acid codes for pyrrolysine
NEWS 23 SEP 28 CEABA-VTB classification code fields reloaded with new
classification scheme

NEWS EXPRESS JUNE 30 CURRENT WINDOWS VERSION IS V8.01b, CURRENT
MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
AND CURRENT DISCOVER FILE IS DATED 26 JUNE 2006.

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FULL ESTIMATED COST	0.21	0.21

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STRUCTURE FILE UPDATES: 6 OCT 2006 HIGHEST RN 909850-02-8

DICTIONARY FILE UPDATES: 6 OCT 2006 HIGHEST RN 909850-02-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

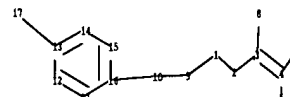
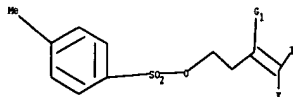
Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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Uploading C:\Program Files\Stnexp\Queries\10560556d.str



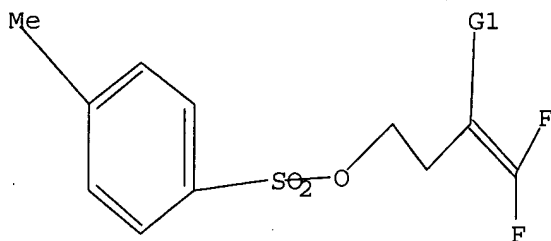
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 1 2 3 4 5 6 8 9 10 17
 ring nodes :
 11 12 13 14 15 16
 chain bonds :
 1-2 1-9 2-3 3-4 3-8 4-5 4-6 9-10 10-16 13-17
 ring bonds :
 11-12 11-16 12-13 13-14 14-15 15-16
 exact/norm bonds :
 1-9 3-8 9-10
 exact bonds :
 1-2 2-3 3-4 4-5 4-6 10-16 13-17
 normalized bonds :
 11-12 11-16 12-13 13-14 14-15 15-16
 isolated ring systems :
 containing 11 :

G1:H,F

Match level :
 1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 8:CLASS 9:CLASS 10:CLASS
 11:Atom 12:Atom 13:Atom 14:Atom 15:Atom 16:Atom 17:CLASS

L1 STRUCTURE UPLOADED

=> d 11
 L1 HAS NO ANSWERS
 L1 STR



G1 H,F

Structure attributes must be viewed using STN Express query preparation.

=> s 11

SAMPLE SEARCH INITIATED 12:02:45 FILE 'REGISTRY'
SAMPLE SCREEN SEARCH COMPLETED - 1 TO ITERATE

100.0% PROCESSED 1 ITERATIONS 0 ANSWERS
SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 1 TO 80
PROJECTED ANSWERS: 0 TO 0

L2 0 SEA SSS SAM L1

=> s 11 sss full

FULL SEARCH INITIATED 12:02:51 FILE 'REGISTRY'
FULL SCREEN SEARCH COMPLETED - 60 TO ITERATE

100.0% PROCESSED 60 ITERATIONS
SEARCH TIME: 00.00.01

2 ANSWERS

L3 2 SEA SSS FUL L1

=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
166.94	167.15

FULL ESTIMATED COST

FILE 'HCAPLUS' ENTERED AT 12:02:56 ON 07 OCT 2006

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FILE COVERS 1907 - 7 Oct 2006 VOL 145 ISS 16
 FILE LAST UPDATED: 6 Oct 2006 (20061006/ED)

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This file contains CAS Registry Numbers for easy and accurate
 substance identification.

=> s l3

L4

8 L3

=> d l4 ibib abs hitstr tot

L4 ANSWER 1 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 2005:33484 HCAPLUS

DOCUMENT NUMBER: 142:129076

TITLE: Thiazolylfluorobutenoic acids and nematocides
 containing them

INVENTOR(S): Watanabe, Yukiyoshi; Mihara, Jun; Yamazaki, Hirotoishi;
 Otsu, Yuichi; Shibuya, Katsuhiko; Shimojo, Eiichi

PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany

SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent

LANGUAGE: Japanese

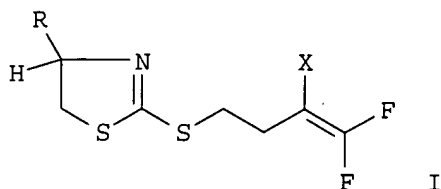
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005008567	A2	20050113	JP 2003-174758	20030619
AU 2004254184	A1	20050113	AU 2004-254184	20040607
CA 2529727	AA	20050113	CA 2004-2529727	20040607
WO 2005003107	A1	20050113	WO 2004-EP6125	20040607
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1638949	A1	20060329	EP 2004-739659	20040607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1809543	A	20060726	CN 2004-80017147	20040607
BR 2004011595	A	20060829	BR 2004-11595	20040607
NO 2006000258	A	20060118	NO 2006-258	20060118
US 2006173190	A1	20060803	US 2006-560556	20060221
PRIORITY APPLN. INFO.:				
			JP 2003-174758	A 20030619
			WO 2004-EP6125	W 20040607

OTHER SOURCE(S): MARPAT 142:129076

GI

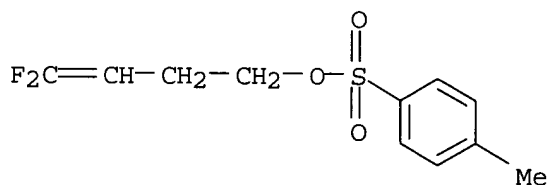


AB The compds. I (R = Me, Et; X = H, F) and nematocides containing I are claimed. Thus, microgranules of I (R = Me, X = F) (preparation given) showed 100% control against *Meloidogyne incognita*.

IT 155957-59-8P, 4,4-Difluoro-3-butenyl 4-methylbenzenesulfonate
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of thiazolylfluorobutenoic acids as nematocides)

RN 155957-59-8 HCAPLUS

CN 3-Buten-1-ol, 4,4-difluoro-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



L4 ANSWER 2 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1996:135681 HCAPLUS

DOCUMENT NUMBER: 124:232461

TITLE: Preparation of heterocyclyl difluorobutenyl ether pesticides

INVENTOR(S): Salmon, Roger

PATENT ASSIGNEE(S): Zeneca Ltd., UK

SOURCE: Brit. UK Pat. Appl., 22 pp.
 CODEN: BAXXDU

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
GB 2287465	A1	19950920	GB 1995-4448	19950306
GB 2287465	B2	19971203		

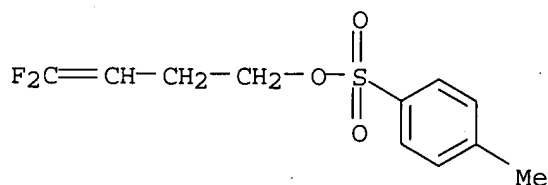
PRIORITY APPLN. INFO.: GB 1994-4942 A 19940315

OTHER SOURCE(S): MARPAT 124:232461

AB The title compds. ROCH2CH2CH:CF2 [R = (un)substituted 1,2,4-oxadiazolyl, (un)substituted 1,2,4-thiadiazolyl, (un)substituted 1,3,4-oxadiazolyl, (un)substituted 1,3,4-thiadiazolyl, (un)substituted tetrazolyl, (un)substituted pyridazinyl, (un)substituted 1,2,4-triazinyl, (un)substituted 1,3,5-triazinyl, (un)substituted quinazolyl,

(un)substituted quinoxalyl], which have nematocidal, insecticidal, and acaricidal activity, are prepared and I-containing formations presented. Thus, 5-chloro-1-phenyltetrazole was condensed with nascent 4,4-difluorobut-3-en-1-ol, producing 5-(4,4-difluorobut-3-enyloxy)-1-phenyltetrazole which demonstrated 99% acaricidal activity against Tetranychus urticae at 500 ppm.

IT 155957-59-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation of heterocyclyl difluorobutenyl ether pesticides)
 RN 155957-59-8 HCAPLUS
 CN 3-Buten-1-ol, 4,4-difluoro-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



L4 ANSWER 3 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1995:994834 HCAPLUS
 DOCUMENT NUMBER: 124:117350
 TITLE: Preparation of (4,4-difluorobut-3-enylthio)-substituted heterocyclic or carbocyclic ring compounds having pesticidal activity
 INVENTOR(S): Turnbull, Michael Drysdale; Bansal, Harjinder Singh; Smith, Alison Mary; Salmon, Roger; Fitzjohn, Steven; Godfrey, Christopher Richard Ayles; Hotson, Matthew Brian; Sillars, Nan Catherine; Dowling, Alan John
 PATENT ASSIGNEE(S): Zeneca Ltd., UK
 SOURCE: PCT Int. Appl., 194 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9524403	A1	19950914	WO 1995-GB400	19950227
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SG, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
CA 2182520	AA	19950914	CA 1995-2182520	19950227
AU 9518164	A1	19950925	AU 1995-18164	19950227
AU 685242	B2	19980115		
EP 749433	A1	19961227	EP 1995-909854	19950227
EP 749433	B1	20030507		
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CN 1143958	A	19970226	CN 1995-192029	19950227
HU 74902	A2	19970228	HU 1996-2417	19950227

HU 215211	B	19981028		
BR 9507042	A	19970909	BR 1995-7042	19950227
JP 09510197	T2	19971014	JP 1995-523286	19950227
CZ 285605	B6	19990915	CZ 1996-2632	19950227
RU 2151147	C1	20000620	RU 1996-120148	19950227
RO 116399	B1	20010130	RO 1996-1788	19950227
SK 281491	B6	20010409	SK 1996-1148	19950227
AT 239714	E	20030515	AT 1995-909854	19950227
PT 749433	T	20030829	PT 1995-909854	19950227
ES 2199240	T3	20040216	ES 1995-909854	19950227
US 5705516	A	19980106	US 1995-400912	19950308
US 5912243	A	19990615	US 1996-702623	19960828
FI 9603539	A	19960909	FI 1996-3539	19960909
NO 9603776	A	19961107	NO 1996-3776	19960909
LV 11686	B	19970620	LV 1996-363	19960910
US 5952359	A	19990914	US 1997-887858	19970703
PRIORITY APPLN. INFO.:			GB 1994-4716	A 19940310
			GB 1994-4717	A 19940310
			GB 1994-4718	A 19940310
			GB 1994-4719	A 19940310
			GB 1994-4720	A 19940310
			GB 1994-4721	A 19940310
			GB 1995-521	A 19950111
			WO 1995-GB400	W 19950227
			US 1995-400912	A3 19950308
OTHER SOURCE(S):		MARPAT 124:117350		
GI				

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

AB The title compds. represented by the general formula $RS(O)nCH_2CH_2CH:CF_2$ [$n = 0, 1, 2$; R is a group of formulas Q - Q13 (X = O, S), etc., wherein the $S(O)mCH_2CH_2CH:CF_2$ group is at least one of R1 (when attached to a carbon atom), R2, R3, R4, R5 or R6; e.g. when R1 is attached to a carbon atom, R2, R3, R4, R5 and R6 are each independently H, optionally substituted alkyl, optionally substituted alkenyl, alkynyl, cycloalkyl, alkylcycloalkyl, alkoxy, alkenyloxy, alkynyloxy, hydroxyalkyl, alkoxyalkyl, optionally substituted aryl, optionally substituted arylalkyl, optionally substituted heteroaryl, optionally substituted heteroarylalkyl, optionally substituted aryloxy, optionally substituted arylalkoxy, optionally substituted aryloxyalkyl, optionally substituted heteroaryloxy, optionally substituted heteroarylalkoxy, optionally substituted heteroaryloxyalkyl, haloalkyl, haloalkenyl, haloalkynyl, haloalkoxy, haloalkenyloxy, haloalkynyloxy, halo, HO, cyano, NO₂, NR₇R₈, NR₇COR₈, NR₇CSR₈, NR₇SO₂R₈, N(SO₂R₇)(SO₂R₈), COR₇, CONR₇R₈, alkyl-CONR₇R₈, CR₇NR₈, CO₂R₇, O₂CR₇, SR₇, SOR₇, SO₂R₇, alkyl-SR₇, alkyl-SOR₇, alkyl-SO₂R₇, OSO₂R₇, SO₂NR₇R₈, CSNR₇R₉, SiR₇R₈R₉, OCH₂CO₂R₇, OCH₂CH₂CO₂R₇, CONR₇SO₂R₈, alkyl-CONR₇SO₂R₈, NHCONR₇R₈, NHCSNR₇R₈, or an adjacent pair of R1 - R6 when taken together form a fused 5- or 6-membered carbocyclic or heterocyclic ring] are prepared. Thus, a solution of 4,4-difluorobut-3-enyl thioacetate in 50% aqueous NaOH was stirred vigorously for 30 min, followed by successively adding Et 5-chloro-4-methylisoxazole in CH₂Cl₂ and Bu₄NBr, and the reaction mixture was stirred at the ambient temperature for 3 h to give Et 5-(4,4-difluorobut-3-enylthio)-3-methylisoxazole-4-carboxylate. The latter compound was saponified with a mixture of 2 M NaOH and isopropanol and

acidified with 2 M HCl to give the acid 5-(4,4-difluorobut-3-enylthio)-3-methylisoxazole-4-carboxylic acid, which was treated with Et chloroformate and Et3N in CH2Cl2 at 0° and then with NH3(g) to give the amide 5-(4,4-difluorobut-3-enylthio)-3-methylisoxazole-4-carboxamide (I). I controlled 100% Tetranychus urticae (spider mite) and Myzus persicae (green peach aphid) upon contract at 100 ppm and 100% Meloidogyne incognita (root knot nematode) at 2 ppm as a drench solution to 2 wk old cucumber plants.

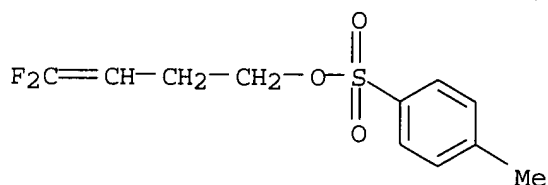
IT 155957-59-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of (difluorobutenylthio)-substituted heterocyclic or carbocyclic ring compds. as pesticides)

RN 155957-59-8 HCAPLUS

CN 3-Buten-1-ol, 4,4-difluoro-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



L4 ANSWER 4 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:934009 HCAPLUS

DOCUMENT NUMBER: 123:340102

TITLE: Process for the preparation of 2-(4,4-difluorobut-3-enylthio)benzthiazoles and -benzoxazoles

INVENTOR(S): Bansal, Harjinder Singh; Cleare, Peter John Vernon

PATENT ASSIGNEE(S): Zeneca Ltd., UK

SOURCE: PCT Int. Appl., 32 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

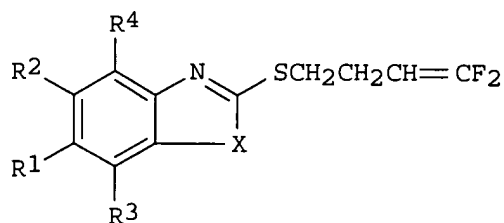
FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9519352	A2	19950720	WO 1995-GB3	19950104
WO 9519352	A3	19960118		
W: AM, AU, BB, BG, BR, BY, CA, CN, CZ, EE, FI, GE, HU, JP, KE, KG, KP, KR, KZ, LK, LR, LT, LV, MD, MG, MN, MW, MX, NO, NZ, PL, RO, RU, SD, SI, SK, TJ, TT, UA, US, UZ, VN				
RW: KE, MW, SD, SZ, AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
US 5451681	A	19950919	US 1994-366068	19941229
ZA 9410404	A	19951010	ZA 1994-10404	19941229
AU 9513234	A1	19950801	AU 1995-13234	19950104
PRIORITY APPLN. INFO.:			GB 1994-523	A 19940113
			WO 1995-GB3	W 19950104

OTHER SOURCE(S): CASREACT 123:340102; MARPAT 123:340102

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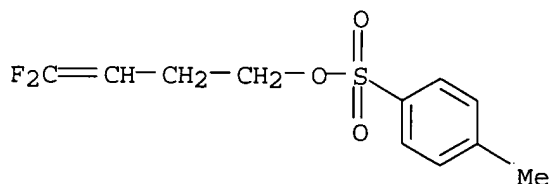


AB The title compds. [I; R1-R4 = H, (un)substituted alkyl, (un)substituted alkenyl, alkynyl, cycloalkyl, alkylcycloalkyl, (un)substituted aryl, etc.; X = O, S], useful as agrochem. nematicides (no data), are prepared by reacting ortho-nitro- or -nitrosophenols or substituted ortho-nitro- or -nitrosothiophenols with a reducing agent comprising an alkali metal dithionite in an alkaline reaction medium in the presence of CS₂, and acidifying the reaction mixture. Thus, CS₂ was reacted with 2-nitro-5-methoxyphenol in aqueous MeOH KOH solution, and the mixture reacted with a solution of Na dithionite and KOH, producing 6-methoxy-2-mercaptobenzoxazole in 89% yield.

IT 155957-59-8
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (process for the preparation of 2-(4,4-difluorobut-3-enylthio)benzthiazoles and -benzoxazoles)

RN 155957-59-8 HCAPLUS

CN 3-Buten-1-ol, 4,4-difluoro-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



L4 ANSWER 5 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:652321 HCAPLUS

DOCUMENT NUMBER: 123:55860

TITLE: Process for the preparation of 1-(heterocyclylthio)-4,4-difluoro-3-butene-derivative nematicides

INVENTOR(S): Turnbull, Michael Drysdale; Willetts, Nigel James; Fitzjohn, Steven; Kholia, Prafula Govind; Smith, Alison Mary; Salmon, Roger; Bansal, Harjinder Singh; Williams, Alfred Glyn

PATENT ASSIGNEE(S): Zeneca Ltd., UK

SOURCE: PCT Int. Appl., 33 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9504727      A1      19950216      WO 1994-GB1570      19940720
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    TJ, TT, UA, US, UZ, VN
RW:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
    BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG
AU 9471930      A1      19950228      AU 1994-71930      19940720
EP 712395      A1      19960522      EP 1994-921059      19940720
EP 712395      B1      20020522
R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE
HU 73351      A2      19960729      HU 1995-3825      19940720
HU 218575      B      20001028
CN 1128535      A      19960807      CN 1994-192999      19940720
BR 9407164      A      19960917      BR 1994-7164      19940720
JP 09501175     T2      19970204      JP 1995-506270      19940720
JP 3472304      B2      20031202
AT 217869      E      20020615      AT 1994-921059      19940720
ES 2177580      T3      20021216      ES 1994-921059      19940720
IL 110432      A1      20000716      IL 1994-110432      19940725
ZA 9405561      A      19950328      ZA 1994-5561      19940727
US 5728833      A      19980317      US 1994-286142      19940804
US 5914423      A      19990622      US 1997-976559      19971124
PRIORITY APPLN. INFO.:
                                GB 1993-16219      A 19930805
                                GB 1993-16220      A 19930805
                                GB 1993-25453      A 19931213
                                GB 1993-25455      A 19931213
                                WO 1994-GB1570      W 19940720
                                US 1994-286142      A3 19940804

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OTHER SOURCE(S): CASREACT 123:55860; MARPAT 123:55860

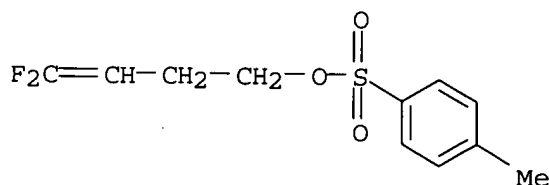
AB The title compds. XSCH₂CH₂CH:CF₂ [X = (un)substituted 5- or 6-membered heterocyclyl] [e.g., 2-(4,4-difluorobut-3-enylthio)-5-methylbenzoxazole; oil], useful as nematicides (no data), are prepared in high yield by the condensation of XSH with CF₂:CHCH₂CH₂L [L = Cl, Br, OSO₂Ra; Ra = is 4-chloroalkyl, Ph (un)substituted by 4-chloroalkyl].

IT 155957-59-8

RL: RCT (Reactant); RACT (Reactant or reagent)
(process for the preparation of 1-(heterocyclylthio)-4,4-difluoro-3-butene-derivative nematicides)

RN 155957-59-8 HCAPLUS

CN 3-Buten-1-ol, 4,4-difluoro-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



L4 ANSWER 6 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1995:289969 HCAPLUS

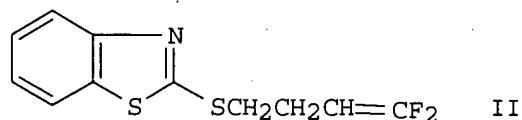
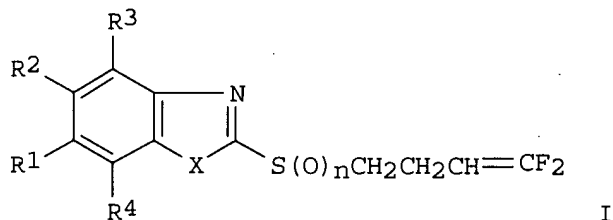
DOCUMENT NUMBER: 122:56056

TITLE: Benzoxazole and bezothiazole derivatives

INVENTOR(S): Fitzjohn, Steven; Robinson, Michael Peter; Turnbull, Michael Drysdale; Smith, Alison Mary; Salmon, Roger;

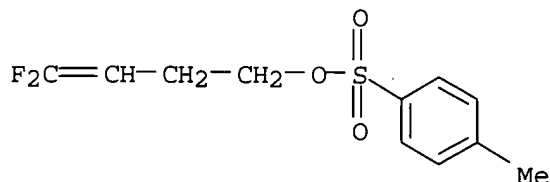
PATENT ASSIGNEE(S): Taylor, Robin
 SOURCE: Zeneca Ltd., UK
 PCT Int. Appl., 98 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9406782	A1	19940331	WO 1993-GB1913	19930910
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
GB 2270689	A1	19940323	GB 1993-18738	19930909
AU 9349778	A1	19940412	AU 1993-49778	19930910
CN 1094400	A	19941102	CN 1993-119092	19930910
CN 1039415	B	19980805		
ZA 9306709	A	19950222	ZA 1993-6709	19930910
EP 660830	A1	19950705	EP 1994-910244	19930910
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
US 5451594	A	19950919	US 1993-119917	19930910
JP 08504185	T2	19960507	JP 1994-507887	19930910
IL 106971	A1	19980615	IL 1993-106971	19930910
IL 119810	A1	19980816	IL 1993-119810	19930910
PRIORITY APPLN. INFO.:			GB 1992-19634	A 19920916
			IL 1993-106971	A3 19930910
			WO 1993-GB1913	W 19930910
OTHER SOURCE(S):		MARPAT 122:56056		
GI				



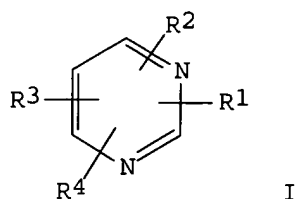
AB The invention provides novel 2-[(4,4-difluoro-3-butenyl)thio]benzoxazoles and -benzothiazoles I (X = oxygen, sulfur; n = 0-2; R1-R4 = H, alkyl, haloalkyl, etc.). I have properties as fungicides, nematocides and acaricides. An example compound, 2-[(4,4-difluoro-3-butenyl)thio]benzothiazole (II) was prepared in several steps. II had insecticidal activity against, for example, the aphid *Myzus persicae*.

IT 155957-59-8P
 RL: SPN (Synthetic preparation); PREP (Preparation)
 (preparation of, as intermediate for [(difluorobutenyl)thio]benzoxazole or
 -benzothioazole)
 RN 155957-59-8 HCAPLUS
 CN 3-Buten-1-ol, 4,4-difluoro-, 4-methylbenzenesulfonate (9CI) (CA INDEX
 NAME)



L4 ANSWER 7 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN
 ACCESSION NUMBER: 1994:557663 HCAPLUS
 DOCUMENT NUMBER: 121:157663
 TITLE: Preparation of heterocyclic compounds as pesticides
 INVENTOR(S): Fitzjohn, Steven; Robinson, Michael Peter; Turnbull,
 Michael Drysdale
 PATENT ASSIGNEE(S): Zeneca Ltd., UK
 SOURCE: PCT Int. Appl., 78 pp.
 CODEN: PIXXD2
 DOCUMENT TYPE: Patent
 LANGUAGE: English
 FAMILY ACC. NUM. COUNT: 1
 PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 9406777	A1	19940331	WO 1993-GB1912	19930910
W: AU, BB, BG, BR, BY, CA, CZ, FI, HU, JP, KP, KR, KZ, LK, MG, MN, MW, NO, NZ, PL, RO, RU, SD, SK, UA, US, VN				
RW: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
GB 2270688	A1	19940323	GB 1993-18737	19930909
AU 9349777	A1	19940412	AU 1993-49777	19930910
ZA 9306708	A	19940519	ZA 1993-6708	19930910
CN 1098718	A	19950215	CN 1993-119093	19930910
CN 1041922	B	19990203		
EP 660827	A1	19950705	EP 1994-910243	19930910
EP 660827	B1	19970416		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IE, IT, LI, LU, MC, NL, PT, SE				
JP 08503932	T2	19960430	JP 1993-507886	19930910
AT 151757	E	19970515	AT 1994-910243	19930910
ES 2100706	T3	19970616	ES 1994-910243	19930910
US 5684011	A	19971104	US 1996-653099	19960524
PRIORITY APPLN. INFO.:			GB 1992-19635	A 19920916
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			WO 1993-GB1912	W 19930910
OTHER SOURCE(S):		MARPAT 121:157663		
GI				

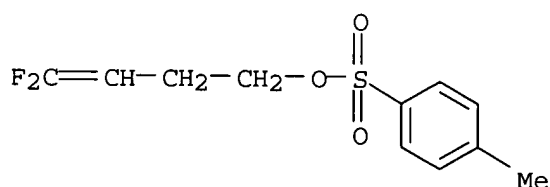


AB Title compds. I (R1 = F2C=CHCH2CH2(O)nS, n = 0-2; R2, R3, R4 = H, alkyl, alkenyl, alkynyl, cycloalkyl, alkylcycloalkyl, (substituted) aryl, (substituted) arylalkyl, (substituted) aryloxy, (substituted) arylalkoxy, alkoxy, alkenylthio, halo, HO, NC, O2N, etc., adjacent pair of R2, R3 and R4 when taken together form a fused 5- or 6-membered carbocyclic or heterocyclic ring) having, acaricidal, fungicidal, insecticidal and nematocidal activities, are prepared K2CO3.2-mercaptopyrimidine; and 2-(2-bromoethyl)-1,3-dioxolane were refluxed for 3.5 h to give 2-[2-(1,3-dioxolan-2-yl)ethylthio]pyrimidine which in THF was treated with HCl at ambient temperature for 30 h to give 2-(3-oxopropylthio)pyrimidine; this and CBr2F2 in AcNMe2 was reacted with Ph3P to give I (R1 = R2 = R3 = 5-H,5-H and 6-H, resp., R4 = 2-F2C=CHCH2CH2S) (II). II at 500 ppm showed 80-100% mortality against spider mite, green peach aphid, tobacco budworm-larva and banded cucumber beetle-larva.

IT 155957-59-8P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
 (preparation and reaction of, in preparation of pesticides)

RN 155957-59-8 HCAPLUS

CN 3-Buten-1-ol, 4,4-difluoro-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



L4 ANSWER 8 OF 8 HCAPLUS COPYRIGHT 2006 ACS on STN

ACCESSION NUMBER: 1993:59302 HCAPLUS

DOCUMENT NUMBER: 118:59302

TITLE: Preparation of fluorobutenamine derivatives as pesticides

INVENTOR(S): Ruminsky, Peter Gerrard

PATENT ASSIGNEE(S): Monsanto Co., USA

SOURCE: PCT Int. Appl., 106 pp.
 CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
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WO 9215555	A2	19920917	WO 1992-US1474	19920227
WO 9215555	A3	19930304		
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RW: AT, BE, BF, BJ, CF, CG, CH, CI, CM, DE, DK, ES, FR, GA, GB, GN, GR, IT, LU, MC, ML, MR, NL, SE, SN, TD, TG				
AU 9215569	A1	19921006	AU 1992-15569	19920227
AU 664031	B2	19951102		
BR 9205711	A	19940517	BR 1992-5711	19920227
JP 06505485	T2	19940623	JP 1992-507559	19920227
HU 65415	A2	19940628	HU 1993-2462	19920227
EP 640069	A1	19950301	EP 1992-907941	19920227
EP 640069	B1	19981104		
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PL 167415	B1	19950930	PL 1992-300390	19920227
CZ 281557	B6	19961113	CZ 1993-1779	19920227
EP 798285	A2	19971001	EP 1997-107054	19920227
EP 798285	A3	19971008		
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC				
RO 112854	B1	19980130	RO 1993-1173	19920227
RU 2117658	C1	19980820	RU 1993-54170	19920227
AT 172957	E	19981115	AT 1992-907941	19920227
ES 2123553	T3	19990116	ES 1992-907941	19920227
ZA 9201535	A	19921230	ZA 1992-1535	19920228
IL 101105	A1	20000716	IL 1992-101105	19920228
KR 132120	B1	19980413	KR 1993-702612	19930831
US 5389680	A	19950214	US 1993-138937	19931018
US 5457134	A	19951010	US 1994-321952	19941012
US 5561162	A	19961001	US 1995-401635	19950308
US 5623084	A	19970422	US 1995-443645	19950518
US 5714517	A	19980203	US 1996-701517	19960822
US 5693865	A	19971202	US 1996-763802	19961211
CN 1269136	A	20001011	CN 1998-125774	19981215

PRIORITY APPLN. INFO.:

US 1991-663218	A	19910301
US 1992-827231	A	19920203
EP 1992-907941	A3	19920227
WO 1992-US1474	A	19920227
US 1993-138937	A3	19931018
US 1994-321952	A3	19941012
US 1995-401635	A1	19950308
US 1995-443645	A3	19950518

OTHER SOURCE(S): MARPAT 118:59302

AB XYC:CZ(CH₂)_nQ [Q = CH₂NHR₆, CH₂NO₂, CH₂N:CHR₂, CH₂NCO, COR₁₁, etc.; R₂ = aryl; R₆ = H, (substituted) aliphatic group, -Ph, alkanoyl, etc.; R₁₁ = OH, halo, alkoxy, NHOH, etc.; 1 of X, Y, Z = F and the others = H or F; n = 1, 3, 5, 7, 9, 11] were prepared as acaricides, insecticides, and nematocides. Thus, CH₂:CHCHO was condensed with phthalimide and the product condensed with F₂CBr₂ to give, after hydrazinolysis, F₂C:CHCH₂CH₂NH₂.HCl which gave 92% control of Meloidogyne incognita on tomato plants when sprayed at 250 ppm.

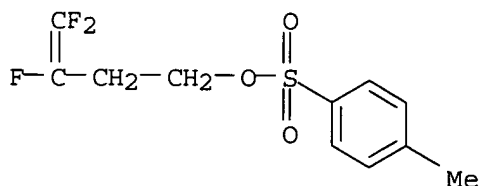
IT 145343-33-5

RL: RCT (Reactant); RACT (Reactant or reagent)

(reaction of, in preparation of acaricides, insecticides, and nematocides)

RN 145343-33-5 HCAPLUS

CN 3-Buten-1-ol, 3,4,4-trifluoro-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



=> FIL REGISTRY
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
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FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
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FILE 'REGISTRY' ENTERED AT 12:04:34 ON 07 OCT 2006
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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 6 OCT 2006 HIGHEST RN 909850-02-8
DICTIONARY FILE UPDATES: 6 OCT 2006 HIGHEST RN 909850-02-8

New CAS Information Use Policies, enter HELP USAGETERMS for details.

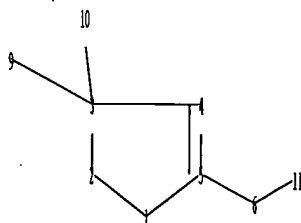
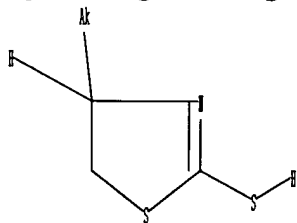
TSCA INFORMATION NOW CURRENT THROUGH June 30, 2006

Please note that search-term pricing does apply when conducting SmartSELECT searches.

REGISTRY includes numerically searchable data for experimental and predicted properties as well as tags indicating availability of experimental property data in the original document. For information on property searching in REGISTRY, refer to:

<http://www.cas.org/ONLINE/UG/regprops.html>

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Uploading C:\Program Files\Stnexp\Queries\10560556e.str



chain nodes :
6 9 10 11
ring nodes :

10/07/2006 10560556d.trn

1 2 3 4 5
chain bonds :
3-9 3-10 5-6 6-11
ring bonds :
1-2 1-5 2-3 3-4 4-5
exact/norm bonds :
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exact bonds :
1-2 1-5 2-3 3-9 6-11
isolated ring systems :
containing 1 :

G1:H,F

Match level :

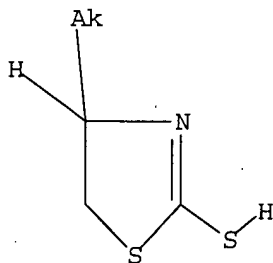
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:CLASS 9:CLASS 10:CLASS 11:CLASS

L5 STRUCTURE UPLOADED

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L5 HAS NO ANSWERS

L5 STR



G1 H,F

Structure attributes must be viewed using STN Express query preparation.

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SAMPLE SEARCH INITIATED 12:06:20 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 4475 TO ITERATE

44.7% PROCESSED 2000 ITERATIONS
INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)
SEARCH TIME: 00.00.01

8 ANSWERS

FULL FILE PROJECTIONS: ONLINE **COMPLETE**
BATCH **COMPLETE**
PROJECTED ITERATIONS: 85489 TO 93511
PROJECTED ANSWERS: 105 TO 611

L6 8 SEA SSS SAM L5

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10560556d.trn

Page 17

12:10

10/07/2006 10560556d.trn

MISSING TERM AFTER L5 AND

Operators must be followed by a search term, L-number, or query name.

=> s l5 and sss full

MISSING TERM AFTER L5 AND

Operators must be followed by a search term, L-number, or query name.

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Operators must be followed by a search term, L-number, or query name.

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FULL SEARCH INITIATED 12:08:31 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 88699 TO ITERATE

100.0% PROCESSED 88699 ITERATIONS

266 ANSWERS

SEARCH TIME: 00.00.01

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=> FIL HCAPLUS

COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
169.58	385.20

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-6.00

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FILE COVERS 1907 - 7 Oct 2006 VOL 145 ISS 16

FILE LAST UPDATED: 6 Oct 2006 (20061006/ED)

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This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d his

(FILE 'HOME' ENTERED AT 12:02:17 ON 07 OCT 2006)

FILE 'REGISTRY' ENTERED AT 12:02:31 ON 07 OCT 2006

L1 STRUCTURE UPLOADED

10560556d.trn

Page 18

12:10

10/07/2006 10560556d.trn

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L3 2 S L1 SSS FULL

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L4 8 S L3

FILE 'REGISTRY' ENTERED AT 12:04:34 ON 07 OCT 2006
L5 STRUCTURE UPLOADED
L6 8 S L5
L7 266 S L5 SSS FULL

FILE 'HCAPLUS' ENTERED AT 12:08:41 ON 07 OCT 2006

=> s l7
L8 311 L7

=> FIL CASREACT
COST IN U.S. DOLLARS

SINCE FILE	TOTAL
ENTRY	SESSION
2.53	387.73

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-6.00

CA SUBSCRIBER PRICE

FILE 'CASREACT' ENTERED AT 12:09:19 ON 07 OCT 2006
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FILE CONTENT:1840 - 1 Oct 2006 VOL 145 ISS 14

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* *****

Some CASREACT records are derived from the ZIC/VINITI database (1974-1991) provided by InfoChem, INPI data prior to 1986, and Biotransformations database compiled under the direction of Professor Dr. Klaus Kieslich.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L3 2 S L1 SSS FULL

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L4 8 S L3

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L5 STRUCTURE UPLOADED
L6 8 S L5
L7 266 S L5 SSS FULL

FILE 'HCAPLUS' ENTERED AT 12:08:41 ON 07 OCT 2006
L8 311 S L7

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1 L3
62 L7
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=> FIL HCAPLUS
COST IN U.S. DOLLARS

FULL ESTIMATED COST

SINCE FILE	TOTAL
ENTRY	SESSION
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DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE	TOTAL
ENTRY	SESSION
0.00	-6.00

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FILE COVERS 1907 - 7 Oct 2006 VOL 145 ISS 16
FILE LAST UPDATED: 6 Oct 2006 (20061006/ED)

New CAS Information Use Policies, enter HELP USAGETERMS for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L10 1 L4 AND L8

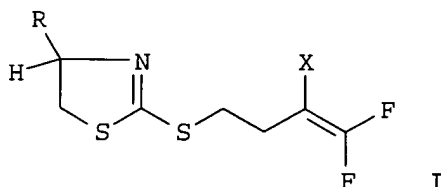
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L10 ANSWER 1 OF 1 HCAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2005:33484 HCAPLUS

10/07/2006 10560556d.trn

DOCUMENT NUMBER: 142:129076
TITLE: Thiazolylfluorobutenoic acids and nematocides containing them
INVENTOR(S): Watanabe, Yukiyoshi; Mihara, Jun; Yamazaki, Hirotooshi; Otsu, Yuichi; Shibuya, Katsuhiko; Shimojo, Eiichi
PATENT ASSIGNEE(S): Bayer Cropscience AG, Germany
SOURCE: Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DOCUMENT TYPE: Patent
LANGUAGE: Japanese
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2005008567	A2	20050113	JP 2003-174758	20030619
AU 2004254184	A1	20050113	AU 2004-254184	20040607
CA 2529727	AA	20050113	CA 2004-2529727	20040607
WO 2005003107	A1	20050113	WO 2004-EP6125	20040607
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
RW: BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
EP 1638949	A1	20060329	EP 2004-739659	20040607
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, FI, RO, CY, TR, BG, CZ, EE, HU, PL, SK				
CN 1809543	A	20060726	CN 2004-80017147	20040607
BR 2004011595	A	20060829	BR 2004-11595	20040607
NO 2006000258	A	20060118	NO 2006-258	20060118
US 2006173190	A1	20060803	US 2006-560556	20060221
PRIORITY APPLN. INFO.:			JP 2003-174758	A 20030619
			WO 2004-EP6125	W 20040607
OTHER SOURCE(S): MARPAT 142:129076				
GI				



AB The compds. I (R = Me, Et; X = H, F) and nematocides containing I are claimed. Thus, microgranules of I (R = Me, X = F) (preparation given) showed 100% control against Meloidogyne incognita.

IT 1437-89-4P 155957-59-8P, 4,4-Difluoro-3-butenyl 4-methylbenzenesulfonate

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

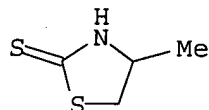
10/07/2006 10560556d.trn

(Reactant or reagent)

(preparation of thiazolylfluorobutenoic acids as nematocides)

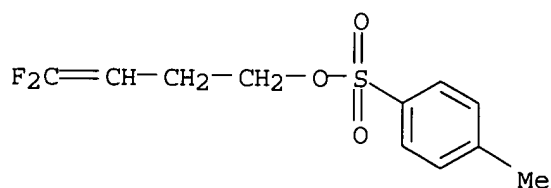
RN 1437-89-4 HCAPLUS

CN 2-Thiazolidinethione, 4-methyl- (7CI, 8CI, 9CI) (CA INDEX NAME)



RN 155957-59-8 HCAPLUS

CN 3-Buten-1-ol, 4,4-difluoro-, 4-methylbenzenesulfonate (9CI) (CA INDEX NAME)



=> log y

COST IN U.S. DOLLARS

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

CA SUBSCRIBER PRICE

SINCE FILE

ENTRY

7.64

SINCE FILE

ENTRY

-0.75

TOTAL

SESSION

452.21

TOTAL

SESSION

-6.75

STN INTERNATIONAL LOGOFF AT 12:10:42 ON 07 OCT 2006